

U.S. DEPARTMENT OF LABOR  
Occupational Safety and Health Administration

Form Approved  
OMB No. 44-R1387

# MATERIAL SAFETY DATA SHEET

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Required under USDL Safety and Health Regulations for Ship Repairing,  
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

## SECTION I

MANUFACTURER'S NAME <b>TENAXOL®, INC.</b>		EMERGENCY TELEPHONE NO. <b>(414) 476-1400</b>
ADDRESS (Number, Street, City, State, and ZIP Code) 5801 W. NATIONAL AVE., MILWAUKEE, WISCONSIN 53214		
CHEMICAL NAME AND SYNONYMS POLYALKYLENE GLYCOL SOLUTION IN WATER		TRADE NAME AND SYNONYMS UCON® QUENCHANTS
CHEMICAL FAMILY POLYALKYLENE GLYCOL	FORMULA HO(C-C-O)75 (C-C-O)H25	

## SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		NA	BASE METAL		NA
CATALYST		NA	ALLOYS		NA
VEHICLE		NA	METALLIC COATINGS		NA
SOLVENTS		NA	FILLER METAL PLUS COATING OR CORE FLUX		NA
ADDITIVES		NA	OTHERS		NA
OTHERS		NA	(NA = NOT APPLICABLE)		
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
POLYALKYLENE GLYCOL - CAS #9003-11-6				△ 50	--
SODIUM OR POTASSIUM NITRITE CAS #7758-09-0				△ 3	--
WATER				BALANCE	--
PRODUCTS ARE 45 TO 65% WATER AS SOLD (80 TO 95% WATER AS USED).					

## SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	212	SPECIFIC GRAVITY (H <sub>2</sub> O=1)	1.1
VAPOR PRESSURE (mm Hg.)	24	PERCENT, VOLATILE BY VOLUME (%)	45-65
VAPOR DENSITY (AIR=1)	0.935	EVAPORATION RATE (WATER =1)	0.5
SOLUBILITY IN WATER (BELOW 165°F) COMPLETE		PH (AS RECEIVED)	7.5-8.5
APPEARANCE AND ODOR PALE YELLOW - ODORLESS			

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) NONE*	FLAMMABLE LIMITS NONE*	Lel	Uel
EXTINGUISHING MEDIA WATER			
SPECIAL FIRE FIGHTING PROCEDURES NONE - PRODUCT IS SOLUBLE IN WATER BELOW 165°F.			
UNUSUAL FIRE AND EXPLOSION HAZARDS NONE			
*NOTE: CONTAINS OVER 50% WATER. AFTER WATER BOILS AWAY, THE FLASH POINT OF THE RESIDUE IS OVER 500°F.			

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE NONE ESTABLISHED BY ACGIH OR OSHA	
EFFECTS OF OVEREXPOSURE SKIN - PROLONGED CONTACT MAY CAUSE MILD REVERSIBLE IRRITATION.	
EYES - CONTACT MAY CAUSE MILD IRRITATION OR DISCOMFORT. EFFECTS ARE TEMPORARY.	
EMERGENCY AND FIRST AID PROCEDURES EYES - WASH OUT WITH WATER.	
SKIN - WASH AFFECTED AREAS THOROUGHLY WITH MILD SOAP AND WATER.	
INTERNAL - IF SWALLOWED, GIVE WATER OR MILK TO DRINK AND GET MEDICAL ATTENTION.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY <i>(Materials to avoid)</i> NOT APPLICABLE			
HAZARDOUS DECOMPOSITION PRODUCTS CARBON-MONOXIDE AND/OR CARBON-DIOXIDE, WATER VAPOR & SMALL AMOUNTS OF OXIDES OF NITROGEN.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED (1) FLUSH SMALL AMOUNTS WITH WATER.	
(2) COLLECT LARGE AMOUNTS IN CONTAINER.	
(3) RECLAIM FOR SYSTEM.	
WASTE DISPOSAL METHOD FLUSH SMALL AMOUNTS WITH WATER BACK TO SYSTEM OR SEWER. INCINERATE OR BURY LARGE AMOUNTS	
IN APPROVED LAND FILLS.	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION <i>(Specify type)</i> NONE NEEDED IN NORMAL USAGE			
VENTILATION  X	LOCAL EXHAUST SATISFACTORY	SPECIAL NONE	
	MECHANICAL <i>(General)</i> SATISFACTORY	OTHER NONE	
PROTECTIVE GLOVES RUBBER OR PLASTIC		EYE PROTECTION SAFETY GLASSES	
OTHER PROTECTIVE EQUIPMENT EYE BATH AND SAFETY SHOWER			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING HANDLING - NO SPECIAL PRECAUTIONS.	
STORAGE - WILL FREEZE BELOW 24°F - CAN BE THAWED WITHOUT DAMAGE	
OTHER PRECAUTIONS	FOR INDUSTRY USE ONLY